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(54) CUTTING TOOL MADE OF SURFACE-COVERED TUNGSTEN CARBIDE BASE CEMENTED CARBIDE HAVING EXCELLENT IN-LAYER ADHESION OF HARD COVERED LAYER

(57)Abstract:

PURPOSE: To provide a cutting tool made of surface-covered cemented carbide having excellent in-layer adhesion of the hard covered layer.

CONSTITUTION: A hard covered layer of the prescribed mean thickness within 3-30 μ m consisting of a first layer consisting of TiN having the granular crystalline structure, a second layer consisting of the TiCN sectioned layer having a plurality of longitudinal growing crystal structure which is sectioned by the TiN sectioned layer consisting of one or two or more layers having the granular crystalline structure, a third layer consisting of Al₂O₃ having the structure mainly of the kappa type crystal, and a fourth layer consisting of TiN having the granular crystalline structure as necessary is formed on the surface of a cemented carbide base body.

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